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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/927,593	08/10/2001	Seok-Hyo Park	678-717 (P9753)	8186

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EXAMINER
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ELAHEE, MD S

ART UNIT	PAPER NUMBER
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2645

DATE MAILED: 09/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding..

<b>Office Action Summary</b>	<b>Application No.</b> 09/927,593	<b>Applicant(s)</b> SEOK-HYO PARK	
	<b>Examiner</b> Md S Elahee	<b>Art Unit</b> 2645	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08/10/01 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |  |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Hunzinger (U.S. Pub. No. 2002/0065071).

Regarding claim 1, Hunzinger teaches transmitting a rescue (i.e., link connection) request message to the base station (BS) (i.e., slave) upon request of a rescue (i.e., link connection) with the BS (page 3, paragraph 0031, page 4, paragraph 0041, page 6, paragraph 0063, page 7, paragraphs 0073, 0076). (Note; rescue procedure is based on the restarting the connection have previously been proposed)

Hunzinger further teaches determining whether the link is connected and transmitting the rescue request message as many times as a predetermined number of automatic rescue attempts until the link is connected if the link is not connected (page 7, paragraph 0076).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hunzinger (U.S. Pub. No. 2002/0065071) and in view of Ziniel (U.S. Patent No. 5,390,341).

Regarding claim 2, Hunzinger teaches sounding an alarm indicating a link connection failure and notifying a link connection failure message if the link is not connected after the link connection request message is transmitted more times than the automatic link connection attempt number (page 7, paragraph 0076).

However, Hunzinger does not specifically teach “displaying a link connection failure message if the link is not connected”. Ziniel teaches displaying a link connection failure message if the link is not connected (col.4, lines 33-42). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hunzinger to display a link connection failure message if the link is not connected as taught by Ziniel. The motivation for the modification is to have doing so in order to display the connection status to the user.

5. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hunzinger (U.S. Pub. No. 2002/0065071) and in view of Sharma et al. (U.S. Pub. No. 2003/0223461).

Regarding claim 3, Hunzinger teaches an option (i.e., message) requesting input of the automatic link connection attempt number upon receipt of key input selecting an automatic link

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connection menu, setting the automatic link connection attempt number corresponding to a received digit key, and setting an automatic link connection mode (page 7, paragraph 0076).

However, Hunzinger does not specifically teach “displaying a message requesting input of the automatic link connection attempt number”. Sharma teaches displaying a message requesting input of the automatic link connection attempt number (page 21, paragraph 0275). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hunzinger to display a message requesting input of the automatic link connection attempt number as taught by Sharma. The motivation for the modification is to have doing so in order to display an option to the user to set a number of attempts to send a fax.

6. Claims 4-6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cox et al. (U.S. Patent No. 6,754,486) and in view of Hunzinger (U.S. Pub. No. 2002/0065071).

Regarding claims 4 and 6, Cox teaches transmitting a message indicating a predetermined automatic link connection attempt number to the VRU (i.e., slave) by the caller (i.e., master) (fig.4; col.11, lines 23-29, 37-44).

Cox further teaches receiving the message indicating the automatic link connection attempt number from the caller and setting the automatic link connection attempt number in the VRU by the VRU (fig.4; col.11, lines 23-29, 37-44). (Note; setting of number of attempts are inherently set in VRU by VRU)

However, Cox does not specifically teach “attempting a link connection to the master by the slave and, if the link connection fails, attempting the link connection as many times as the automatic link connection attempt number by the slave”. Hunzinger teaches attempting a link

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connection to the base station (BS) (i.e., master) by the Mobile station (MS) (i.e., slave) and, if the link connection fails, attempting the link connection as many times as the automatic link connection attempt number by the MS (page 3, paragraph 0031, page 4, paragraph 0041, page 7, paragraphs 0073, 0076). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Cox to attempt a link connection to the master by the slave and, if the link connection fails, attempting the link connection as many times as the automatic link connection attempt number by the slave as taught by Hunzinger. The motivation for the modification is to have doing so in order to rescue communication connections from dropping.

Regarding claim 5, Cox does not specifically teach “the master transmits the message indicating the number of automatic link connection attempts every time the master connects a link with the slave”. Hunzinger teaches that the base station (BS) (i.e., master) transmits the message indicating the number of automatic link connection attempts every time the base station (BS) (i.e., master) connects a link with the Mobile station (MS) (i.e., slave) (page 6, paragraphs 0063-0065). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Cox to incorporate the master transmitting the message indicating the number of automatic link connection attempts every time the master connects a link with the slave as taught by Hunzinger. The motivation for the modification is to have doing so in order to maintain a count of rescues per connection.

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Regarding claim 8, Cox teaches that the communication terminal acting as a slave applies the automatic link connection attempt number set by the master as long as the communication terminal acts as the slave (fig.4; col.11, lines 23-29, 37-44).

7. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cox et al. (U.S. Patent No. 6,754,486) and in view of Hunzinger (U.S. Pub. No. 2002/0065071) and further in view of Kobayashi (U.S. Patent No. 6,721,564).

Regarding claims 7 and 17, Cox teaches transmitting a message indicating a changed automatic link connection attempt number to the slave by the master (fig.4; col.11, lines 23-29, 37-44).

However, Cox does not specifically teach “message indicating a changed automatic link connection attempt number, the message indicating the change from the slave, if the automatic link connection attempt number is changed”. Hunzinger teaches a message indicating a changed automatic link connection attempt number, the message indicating the change from the slave, if the automatic link connection attempt number is changed (page 7, paragraph 0076). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Cox to have a message indicating a changed automatic link connection attempt number, the message indicating the change from the slave, if the automatic link connection attempt number is changed as taught by Hunzinger. The motivation for the modification is to have doing so in order to update the number of attempt of rescues.

Cox in view of Hunzinger does not specifically teach “transmitting a message to the slave by the master until the master receives a response message”. Kobayashi teaches transmitting a

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message to the base station (i.e., slave) by the mobile communication terminal (i.e., master) until the mobile communication terminal receives a response message (col.2, line 61- col.3, line 10). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Cox in view of Hunzinger to transmit a message to the slave by the master until the master receives a response message as taught by Kobayashi. The motivation for the modification is to have doing so in order to get the acknowledgement of the receipt of the transmitted message.

### *Conclusion*

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Gubbi (US Patent No. 6,434,113) teach Dynamic network master handover scheme for wireless computer networks, Gustafsson et al. (US Patent No. 6,597,672) teach Method and device in a mobile telecommunications network, Ross et al. (US Patent No. 6,263,212) teach Methods and apparatus for integrated voice communication and Jou et al. (US Patent No. 6,480,472) teach Mobile station supervision of the forward dedicated control channel when in the discontinuous transmission mode.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Md S Elahee whose telephone number is (703)305-4822. The examiner can normally be reached on Mon to Fri from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on (703)305-4895. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M.E.

MD SHAFIUL ALAM ELAHEE

September 27, 2004

FAN TSANG  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600

A handwritten signature in black ink, appearing to read 'Fan Tsang', written over the printed name and title.